	Application No.	Applicant(s)
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Notice of Allowability	10/621,645 Examiner	JOHNSON ET AL.  Art Unit
	Joseph P. Hirl	2129
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Re of the Office or upon petition by the applicant. See 37 CFR 1.313	ars on the cover sheet with the of (OR REMAINS) CLOSED in this apor other appropriate communication GHTS. This application is subject	correspondence address pplication. If not included on will be mailed in due course. THIS
1. This communication is responsive to <u>March 21, 2005</u> .	•	
2. The allowed claim(s) is/are <u>1-26</u> .		
3. $\boxtimes$ The drawings filed on <u>17 July 2003</u> are accepted by the Ex	aminer.	
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority un</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> <li>3. ☐ Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application No.	···
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAMINEF s reason(s) why the oath or declar	R'S AMENDMENT or NOTICE OF ation is deficient.
6. CORRECTED DRAWINGS ( as "replacement sheets") must	t be submitted.	
(a) I including changes required by the Notice of Draftsperso		-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b)  including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the draw e header according to 37 CFR 1.121	ings in the front (not the back) of (d).
7. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F	it of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da	ate
<ul> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08),         Paper No./Mail Date <u>A1</u></li> <li>□ Examiner's Comment Regarding Requirement for Deposit         of Biological Material</li> </ul>	B), 7. ☐ Examiner's Amend	ment/Comment ent of Reasons for Allowance

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## Examiner's Reasons for Allowance

1. Claims 1-26 are allowed.

2. The following is an examiner's statement of reasons for allowance:

The cited prior art taken alone or in combination fails to teach the claims invention of representing and incorporating available information into mean-reverting-diverting models to develop uncertainty-based forecasts.

The closest prior art (Lucia et al, Electricity prices and power derivatives: Evidence from the Nordic Power Exchange) teaches that  $X_t$  follows a stochastic process of the form:

$$dX_t = -\kappa X_t dt + \sigma dZ$$

where  $\kappa > 0$ ,  $X(0) = x_0$ , and dZ represents an increment of the standard Brownian motion  $Z_t$ . Therefore,  $X_t$  follows a stationary mean-reverting process, or Ornstein-Uhlenbeck process, with a zero long-run mean and a speed of adjustment  $\kappa$  (Lucia, page 11, Section A. equation (2)). Specifically, Lucia does not teach coefficient  $\kappa$  taking on negative values over defined periods of time as well as fluctuating between positive and negative values (Specification, para 0038). The claimed invention facilitates representation of uncertainty-based forecast using mean-reverting-diverting models that is most consistent with available information.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## **Correspondence Information**

3. Any inquiry concerning this information or related to the subject disclosure should be directed to the Examiner, Joseph P. Hirl, whose telephone number is (571) 272-3685. The Examiner can be reached on Monday – Thursday from 6:00 a.m. to 4:30 p.m.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Anthony Knight can be reached at (571) 272-3687.

Any response to this office action should be mailed to:

Commissioner of Patents and Trademarks.

Washington, D. C. 20231;

or faxed to:

(703) 872-9306 (for formal communications intended for entry); or faxed to:

(571) 273-3685 (for informal or draft communications with notation of

"Proposed" or "Draft" for the desk of the Examiner).

Joseph P. Hirl

April 20, 2005